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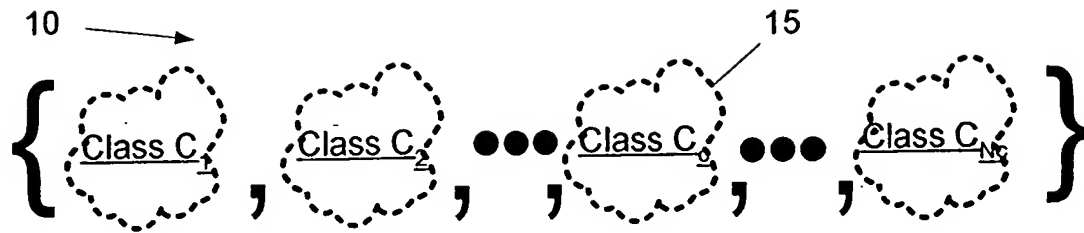


FIG. 1

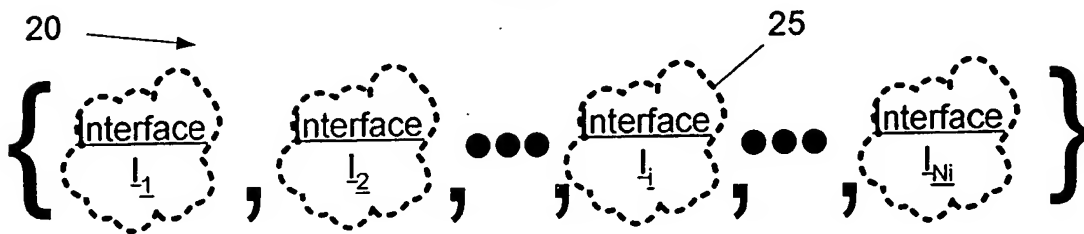


FIG. 2

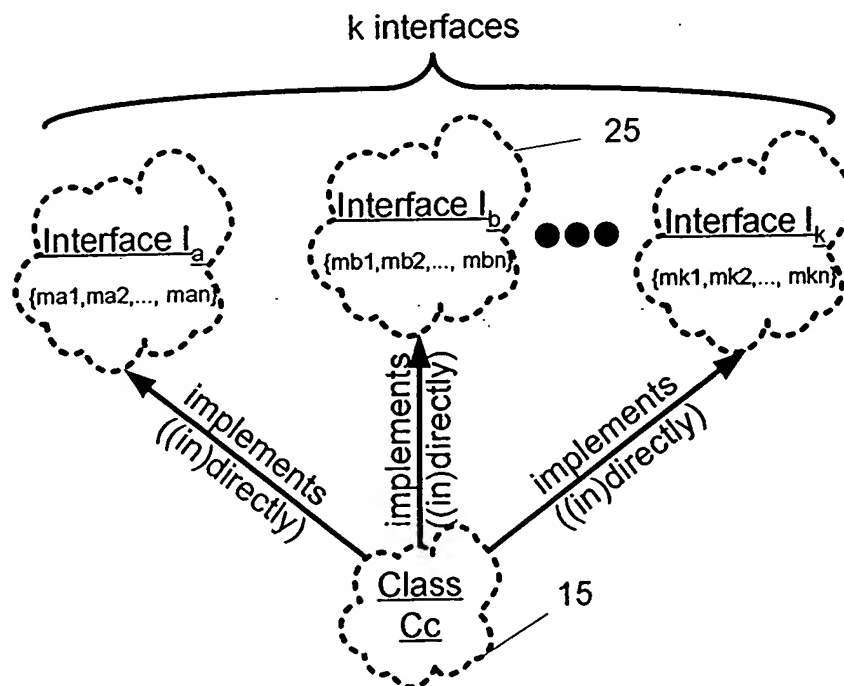


FIG. 3

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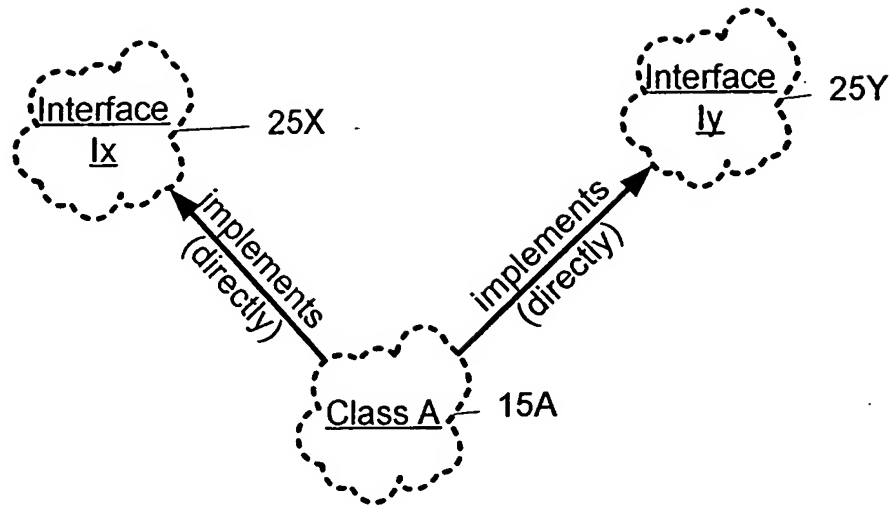


FIG. 4

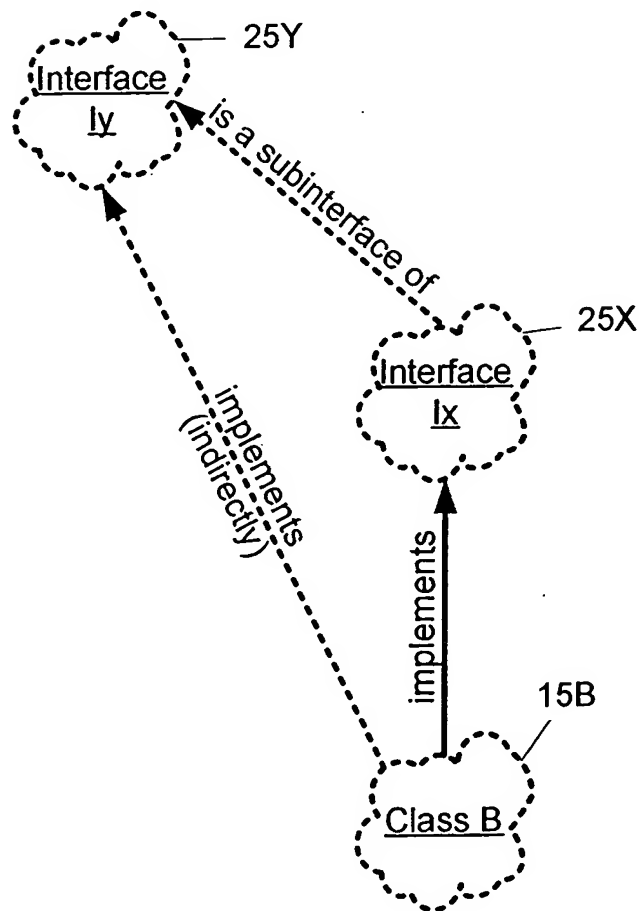


FIG. 5

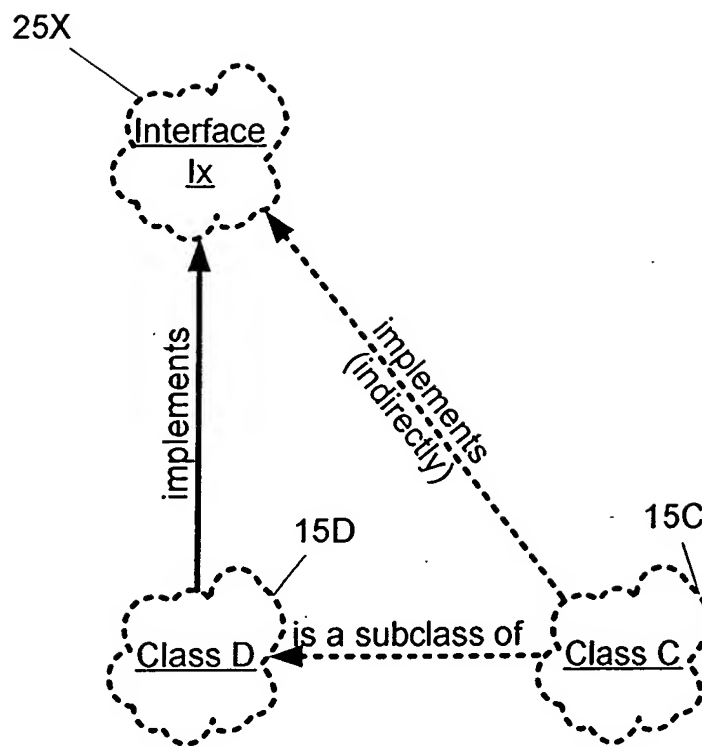


FIG. 6

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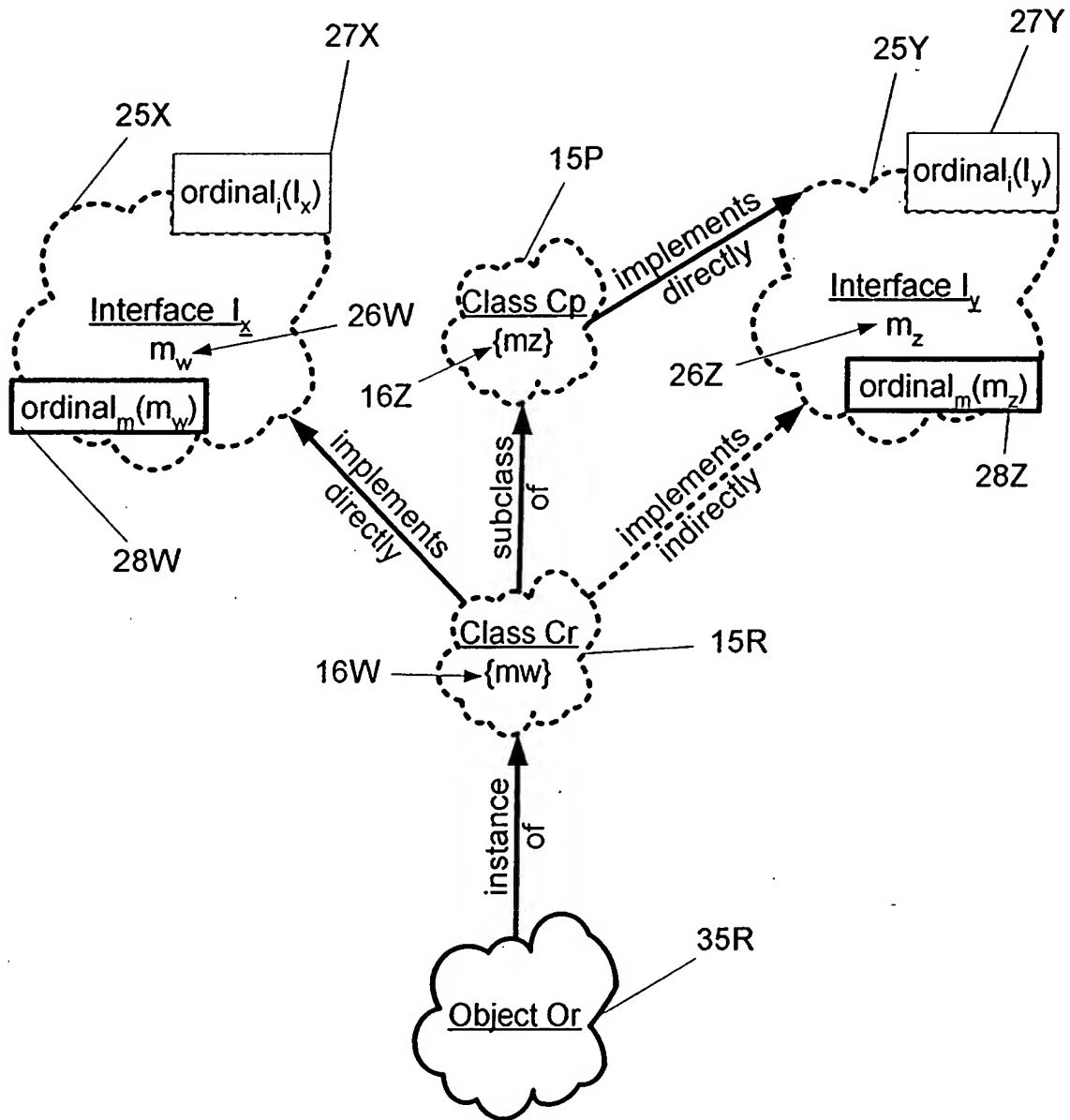


FIG. 7

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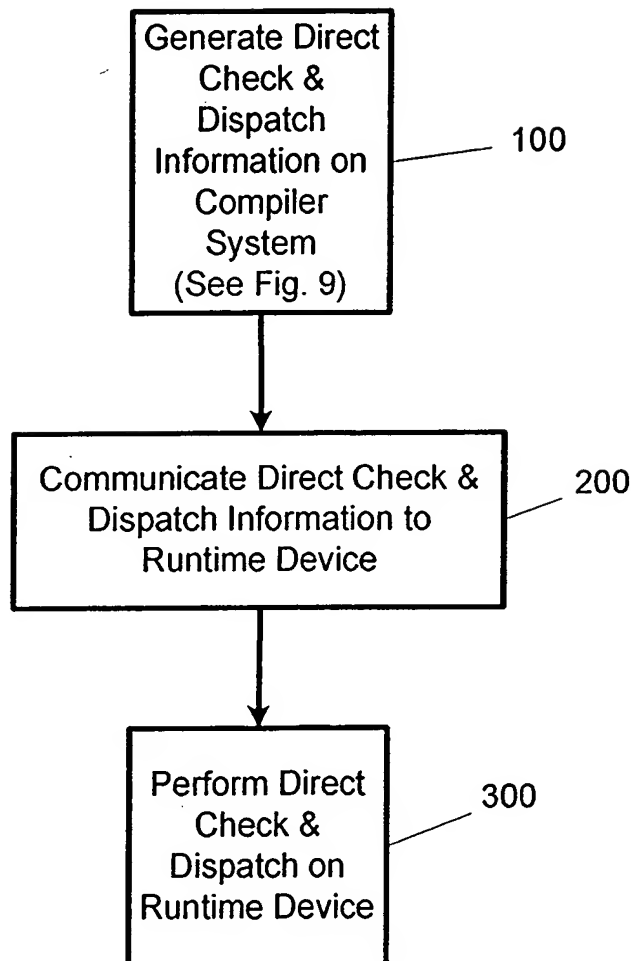


FIG. 8

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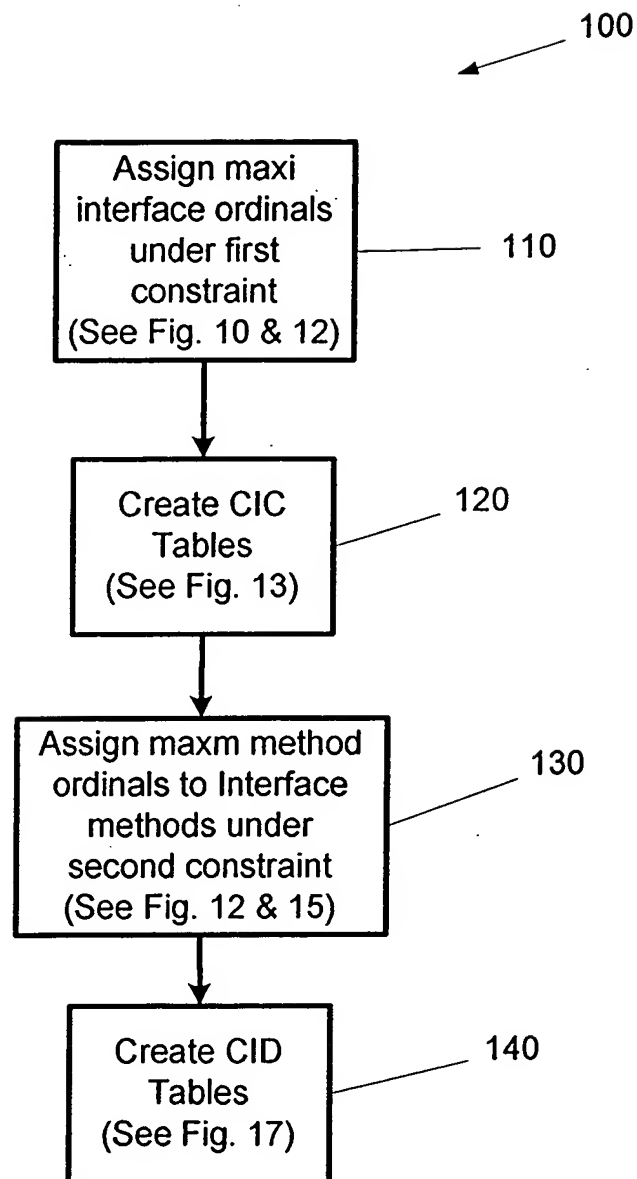


FIG. 9

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FIRST CONSTRAINT

$$\left\{ \begin{array}{l} \forall I_x, I_y, C_r | \\ C_r \text{ implements } I_x \wedge C_r \text{ implements } I_y \\ \Rightarrow \\ (\text{ordinal}_i(I_x) < \text{ordinal}_i(I_y)) \\ \wedge \\ (\text{ordinal}_i(I_x), \text{ordinal}_i(I_y) \in \{0, 1, \dots, \max_i\}) \end{array} \right\} \quad 115$$

FIG. 10

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Interface ordinals	
ordinal	Interfaces
0	$\{I_{a0}, I_{b0}, I_{c0}, \dots, I_{d0}\}$
1	$\{I_{a1}, I_{b1}, I_{c1}, \dots, I_{d1}\}$
...	...
$\text{ordinal}_i(I_x)$	I_x
...	...
$\text{ordinal}_i(I_y)$	I_y
...	...
\max_i	$I_{d\max_i}$

FIG. 11

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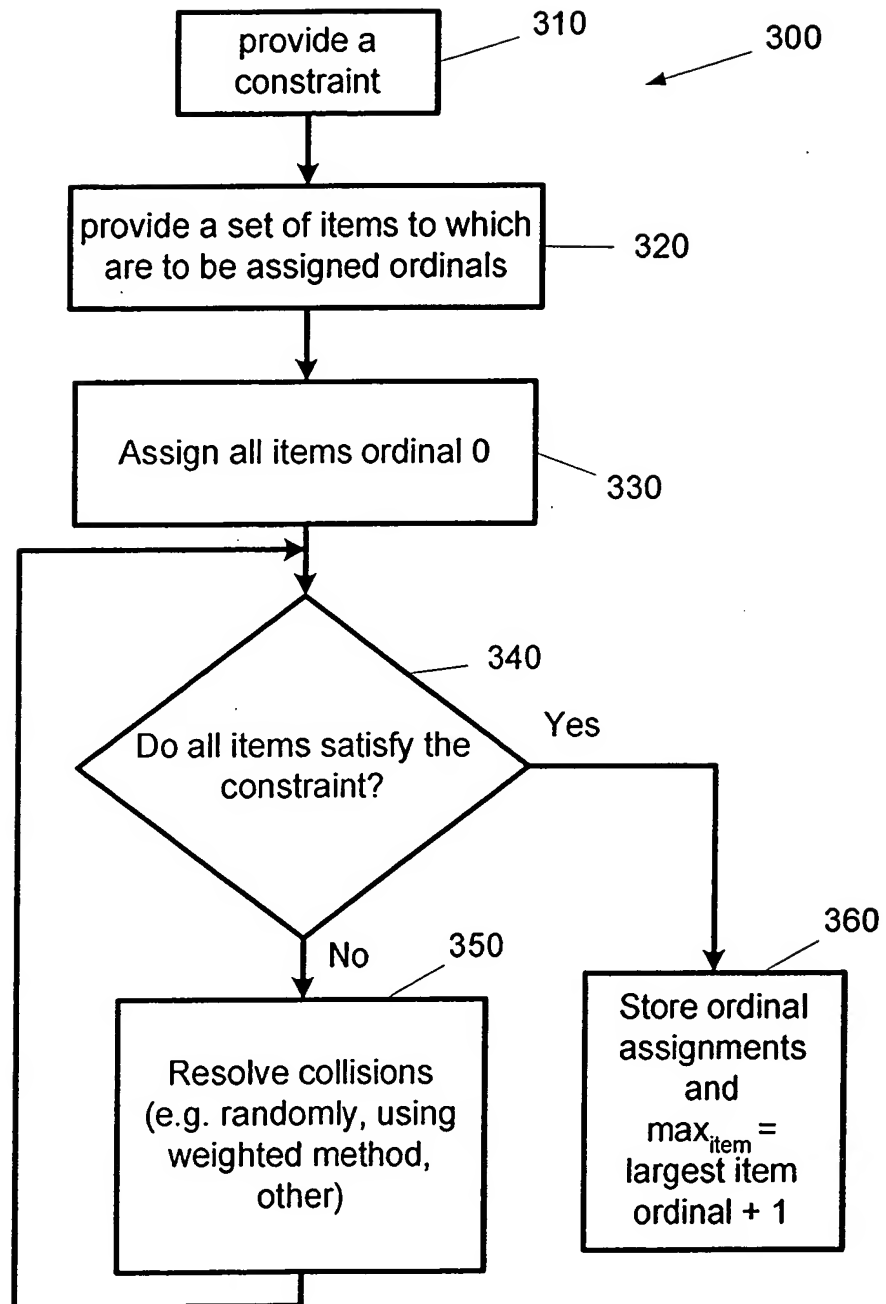


FIG. 12

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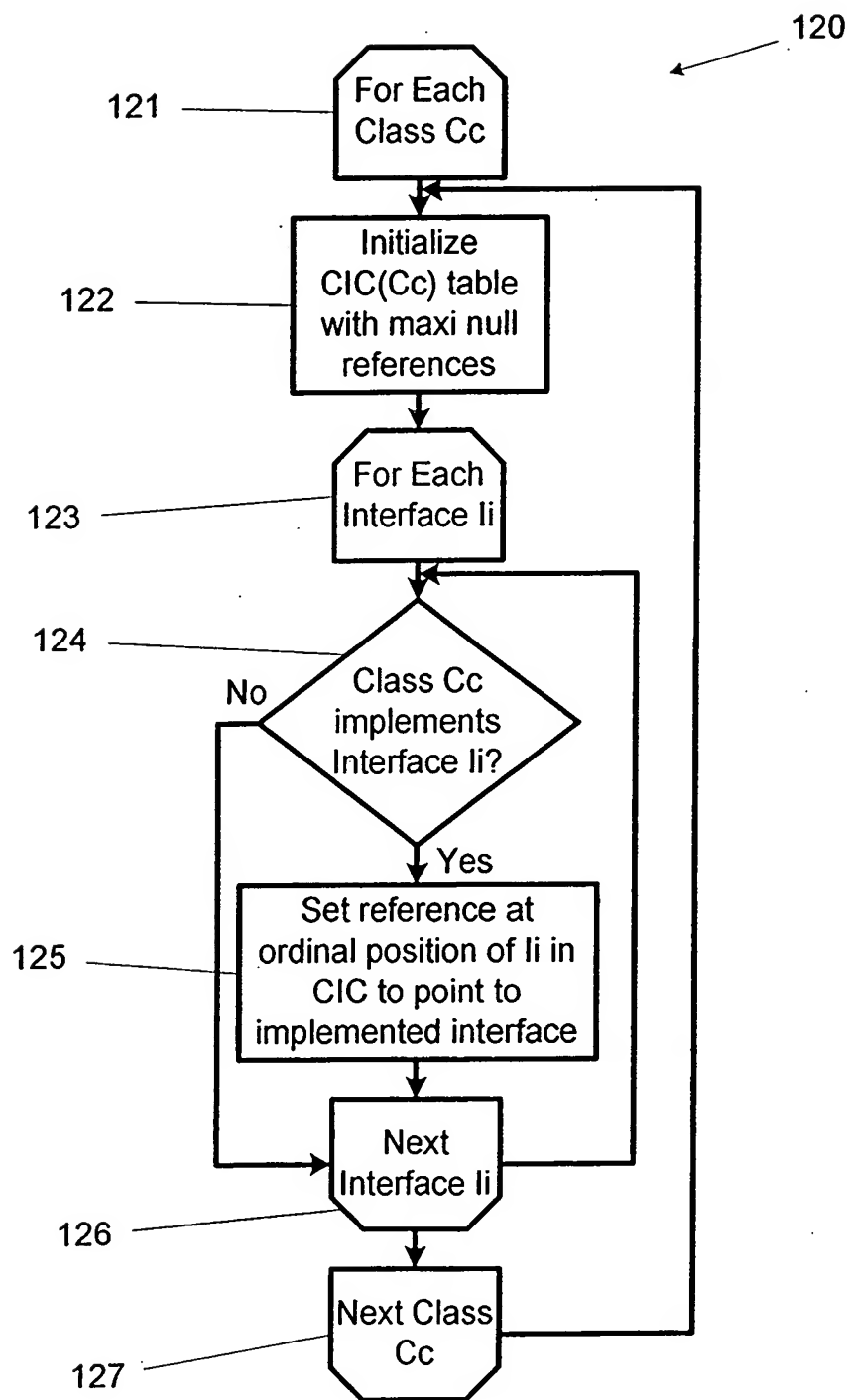
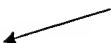


FIG. 13

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GIC(Cr)	
ordinal	@
0	null
1	null
...	...
$\text{ordinal}_i(I_x)$	$@I_x$
...	...
$\text{ordinal}_i(I_y)$	$@I_y$
...	...
max_i	null

FIG. 14

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SECOND CONSTRAINT

$$\left. \begin{aligned} & \{ \forall C_r, I_x, I_y, m_w \in I_x, m_z \in I_y | \\ & (C_r \text{ implements } I_x \wedge C_r \text{ implements } I_y) \\ & \Rightarrow \\ & (\text{ordinal}_m(m_w) \diamond \text{ordinal}_m(m_z)) \\ & \wedge \\ & (\text{ordinal}_m(m_w), \text{ordinal}_m(m_z) \in \{0,1,\dots,\max_{m_i}\}) \} \end{aligned} \right\}$$

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FIG. 15

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Method ordinals	
ordinal _m	Method signatures
0	{m _{a0} , m _{b0} , m _{c0} , ..., m _{d0} }
1	{m _{a1} , m _{b1} , m _{c1} , ..., m _{d1} }
...	...
ordinal _m (m _w)	m _w
...	...
ordinal _m (m _z)	m _z
...	...
max _m	m _{d max m}

FIG. 16

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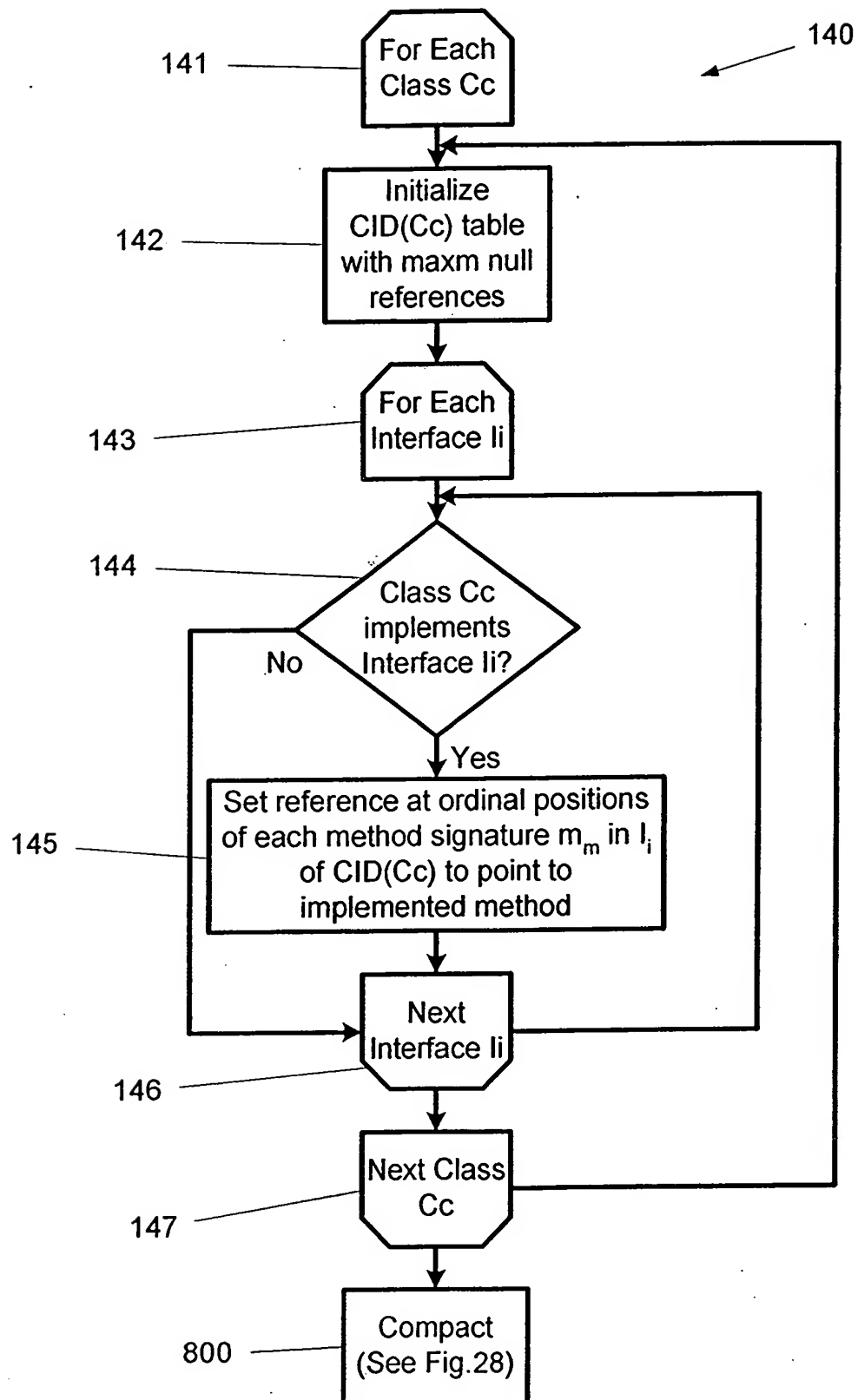



FIG. 17

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CD(C)	
ordinal	@
0	null
1	null
...	...
$\text{ordinal}_m(m_z)$	$@m_z$
...	...
$\text{ordinal}_m(m_w)$	$@m_w$
...	...
\max_{mi}	null

FIG. 18

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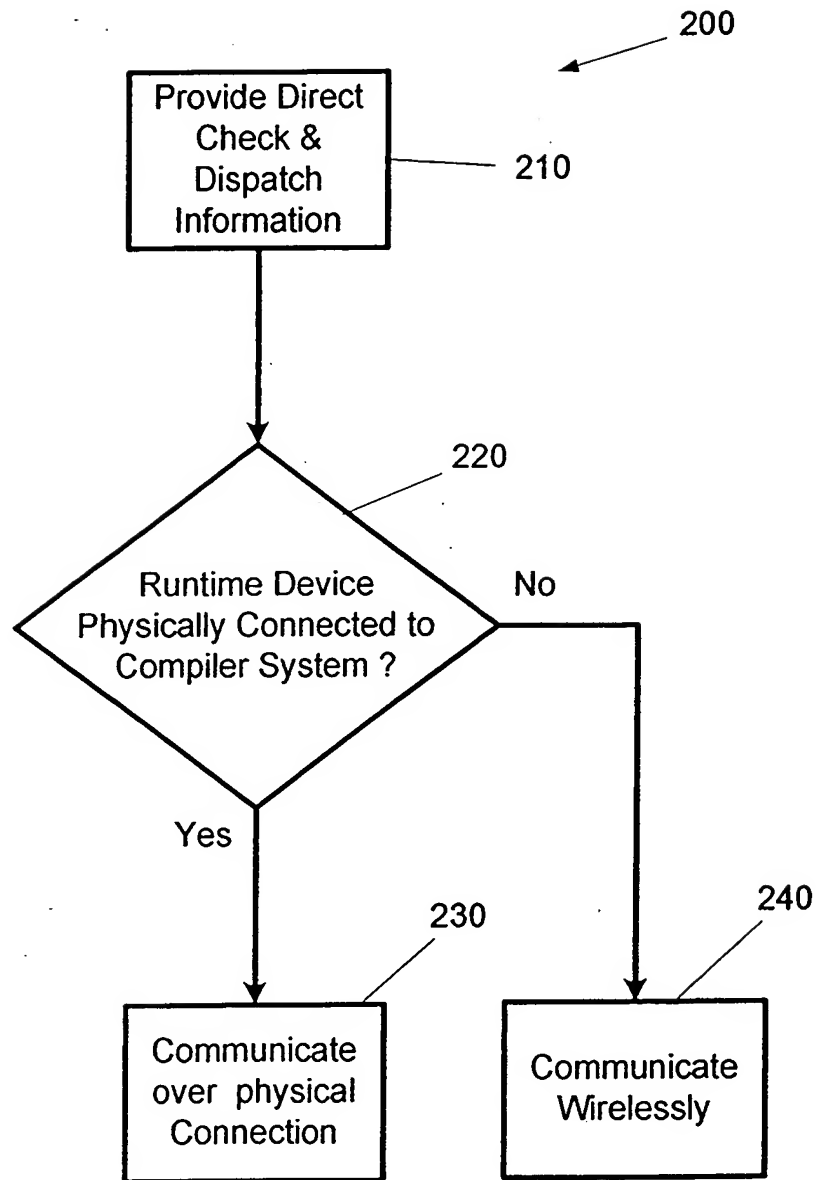


FIG. 19

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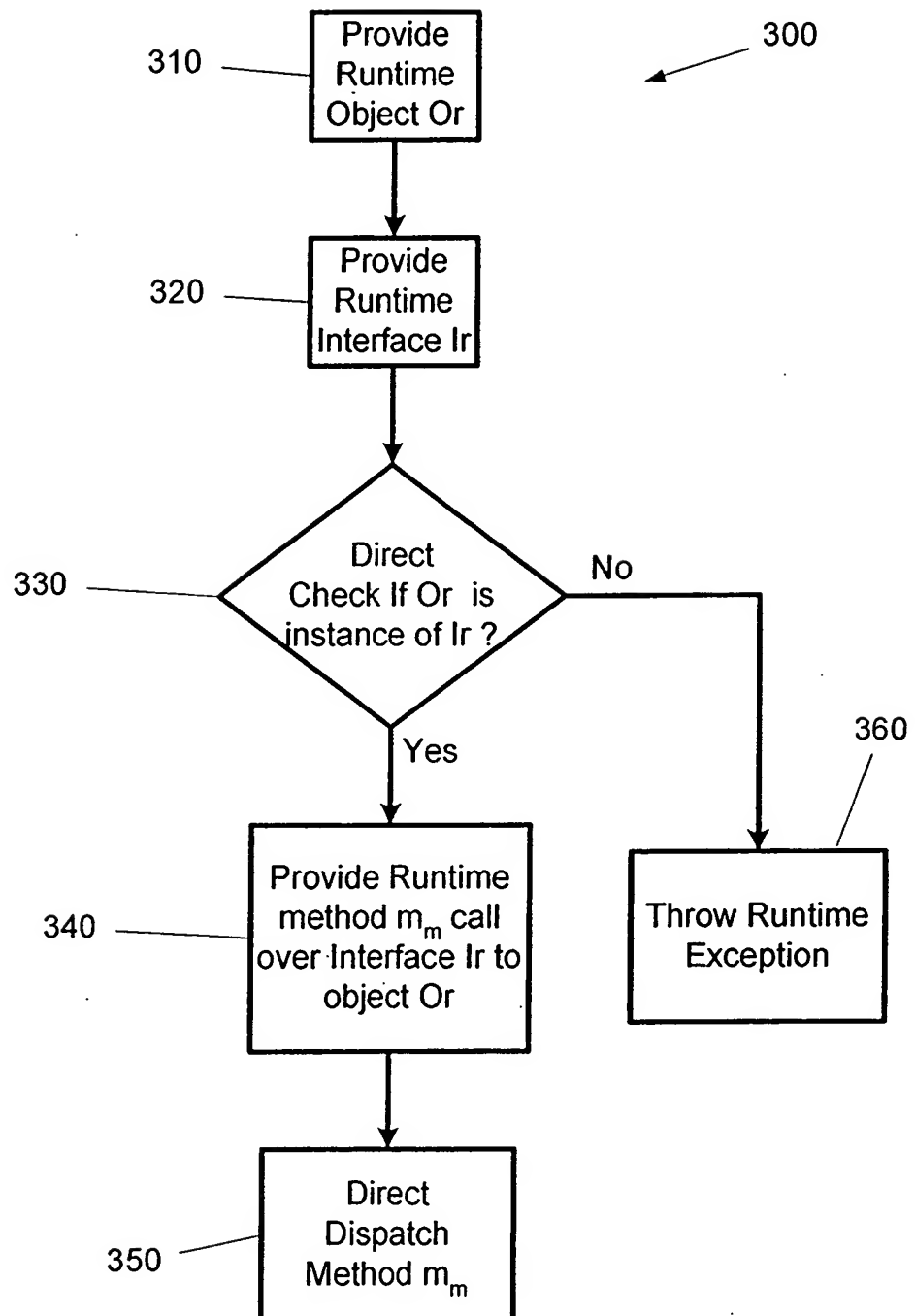


FIG. 20

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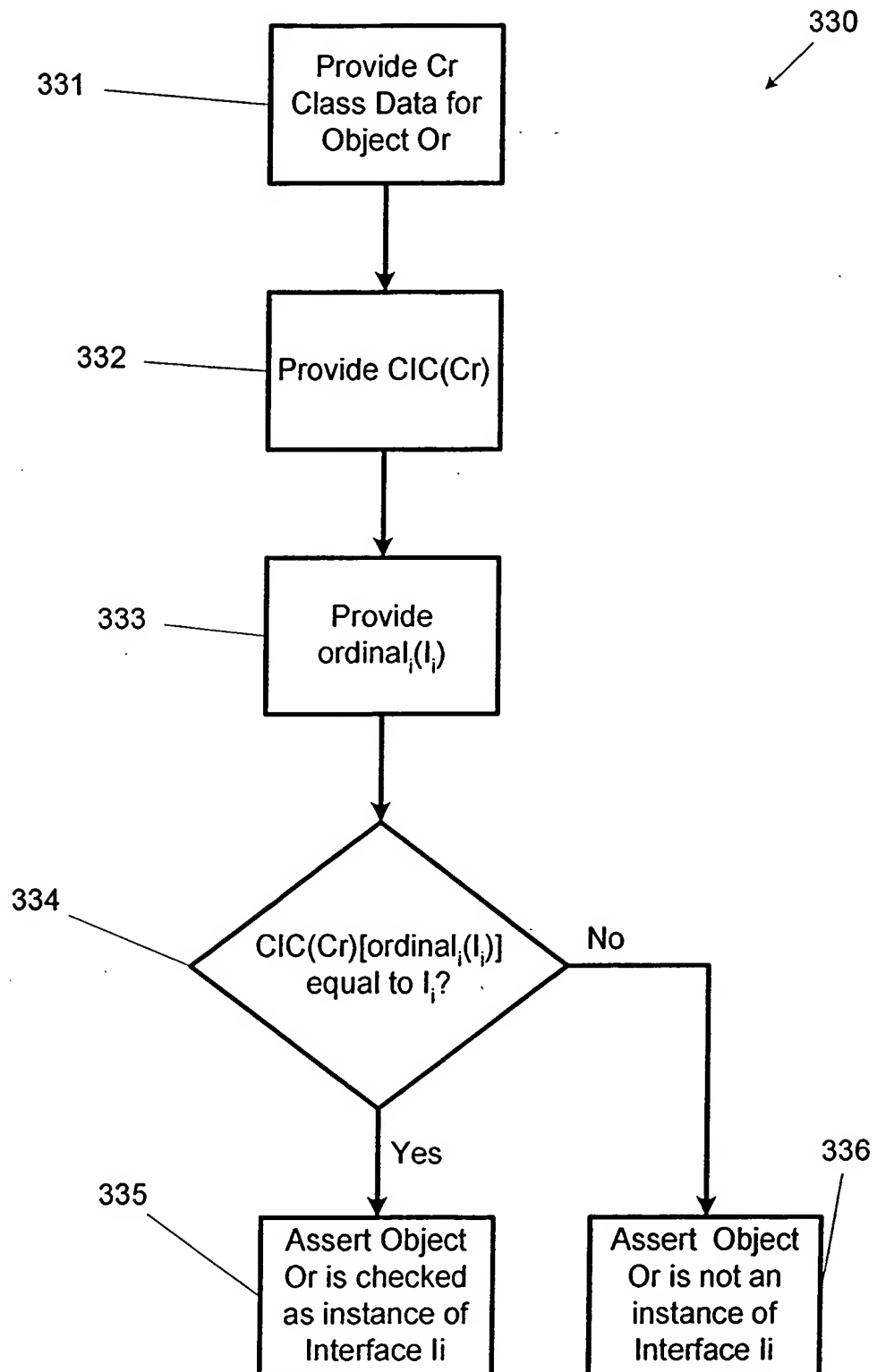


FIG. 21

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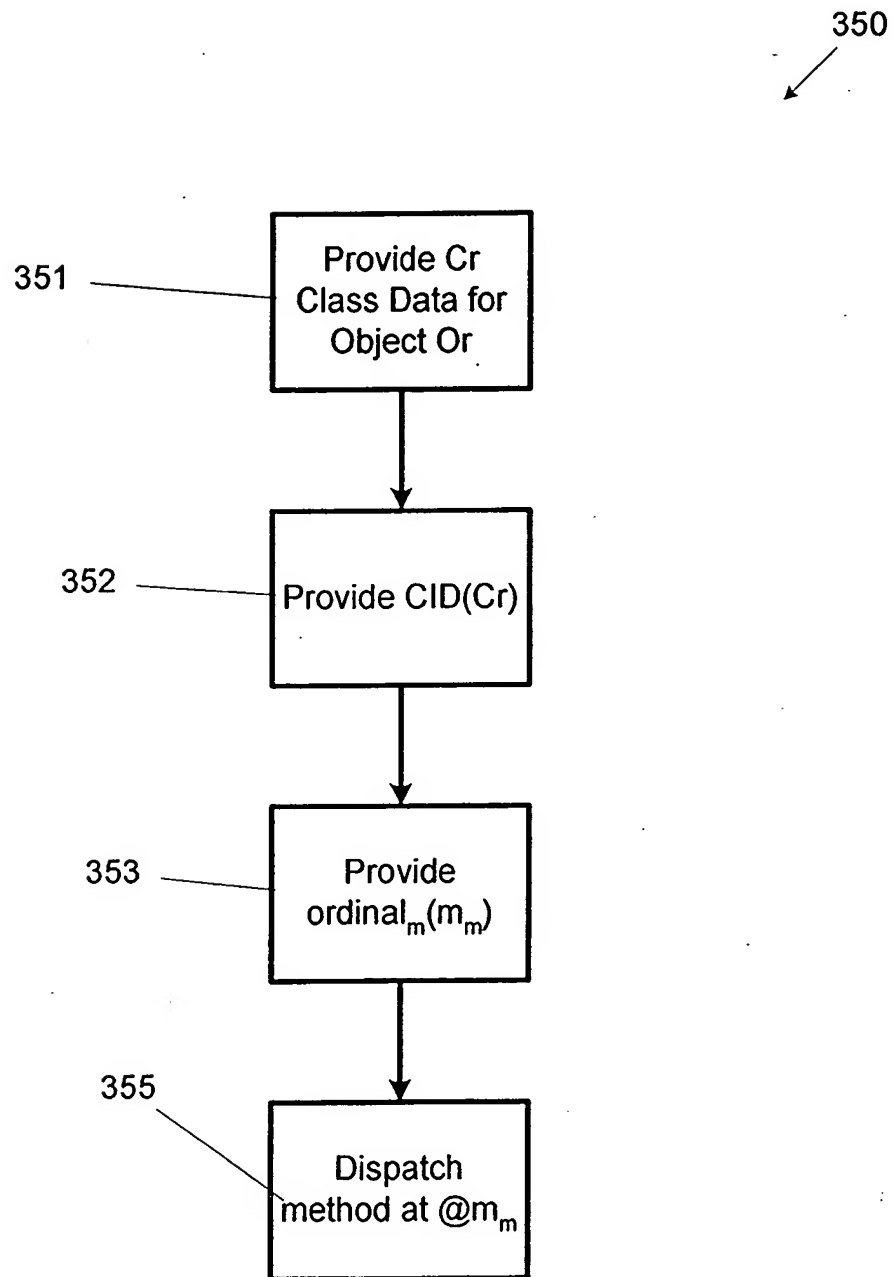


FIG. 22

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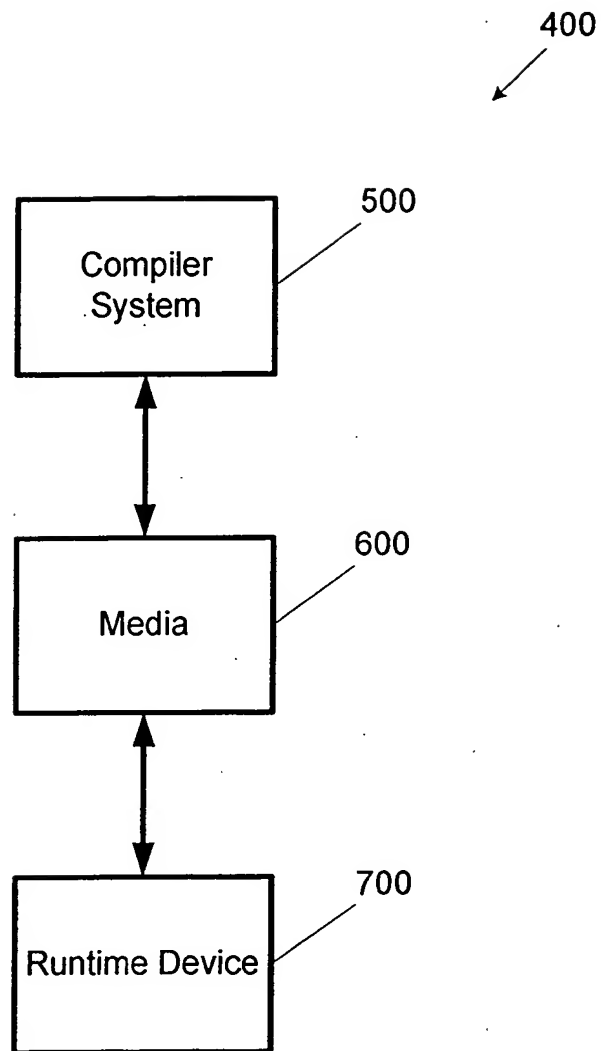


FIG. 23

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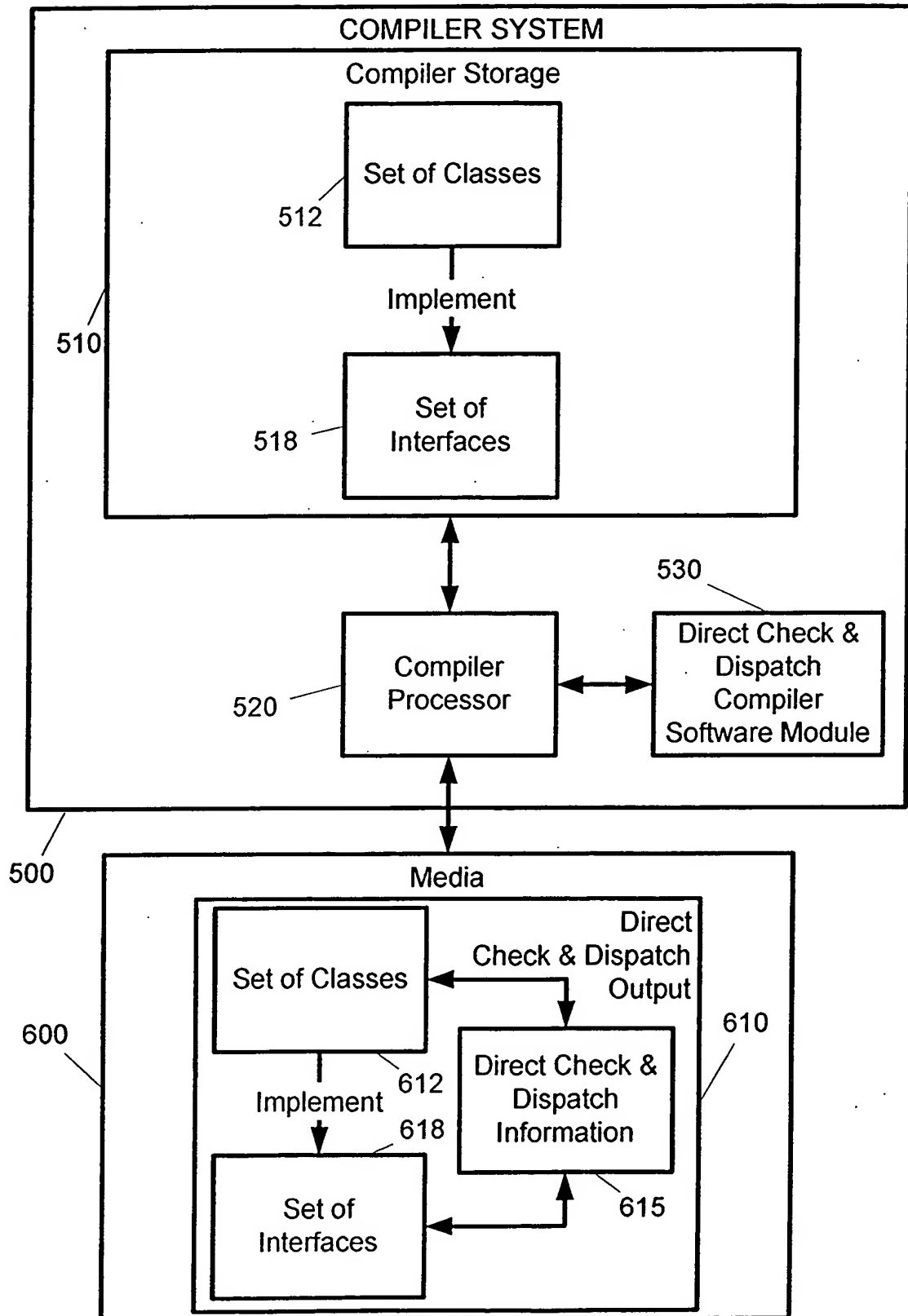
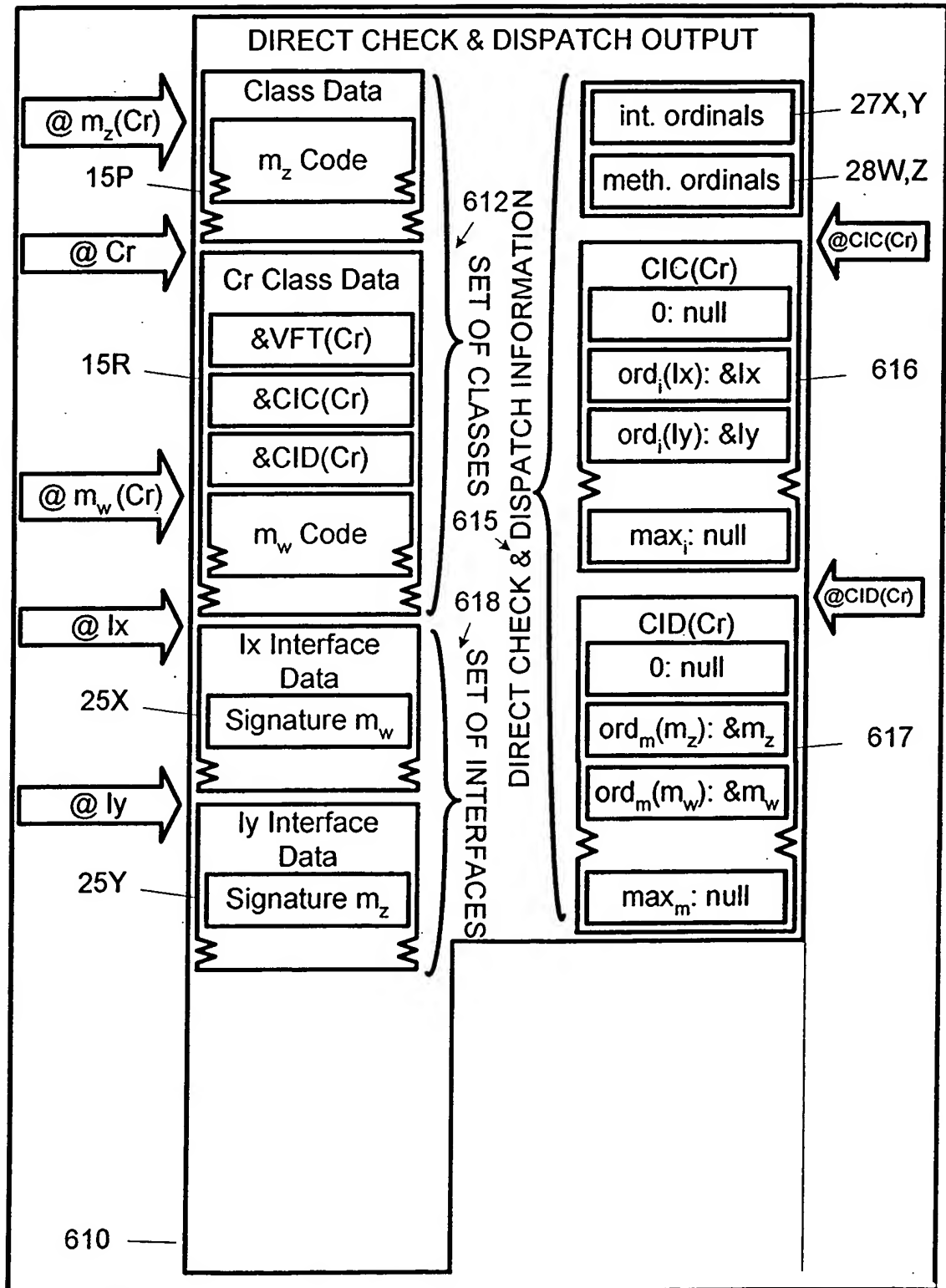


FIG. 24

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MEDIA



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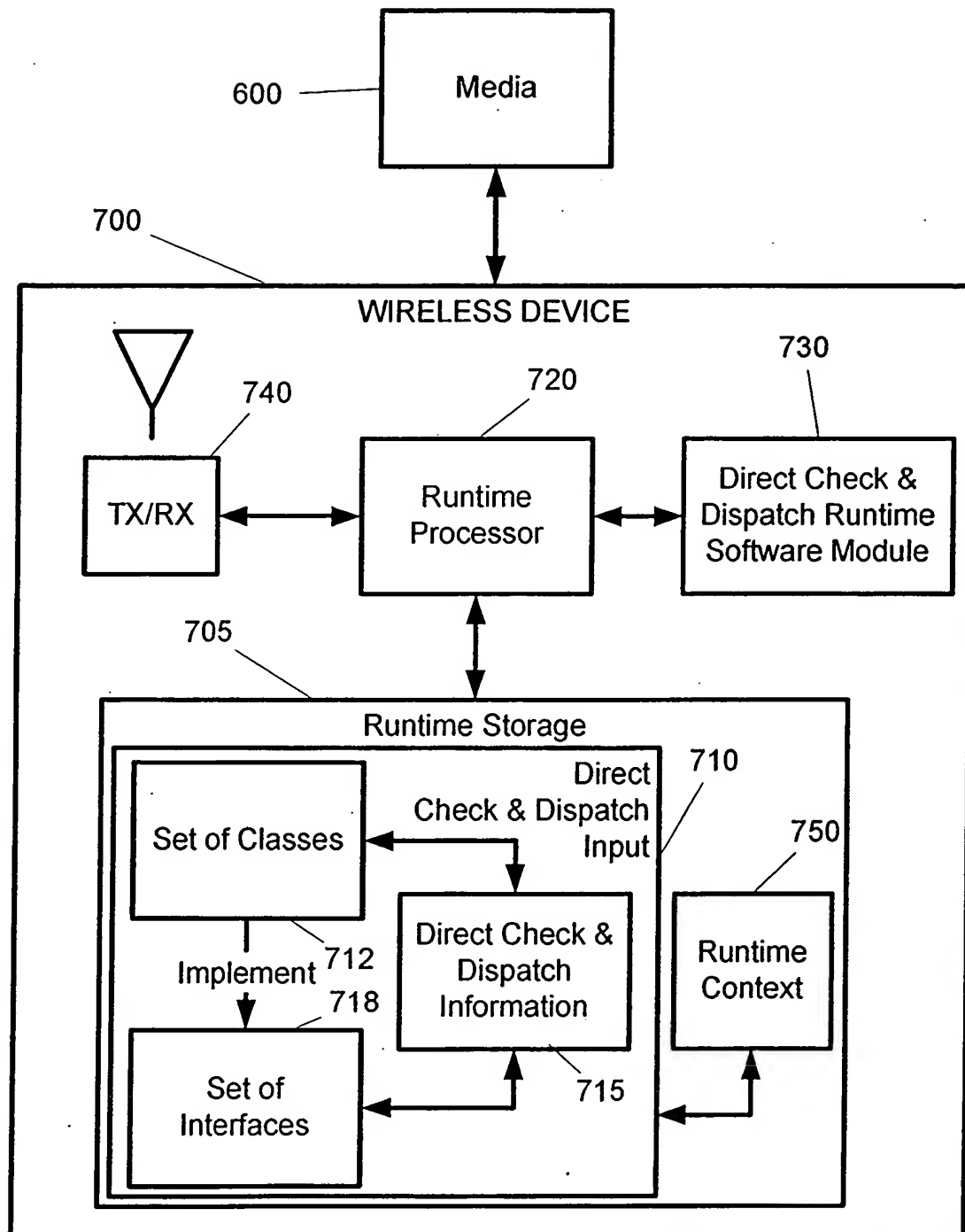
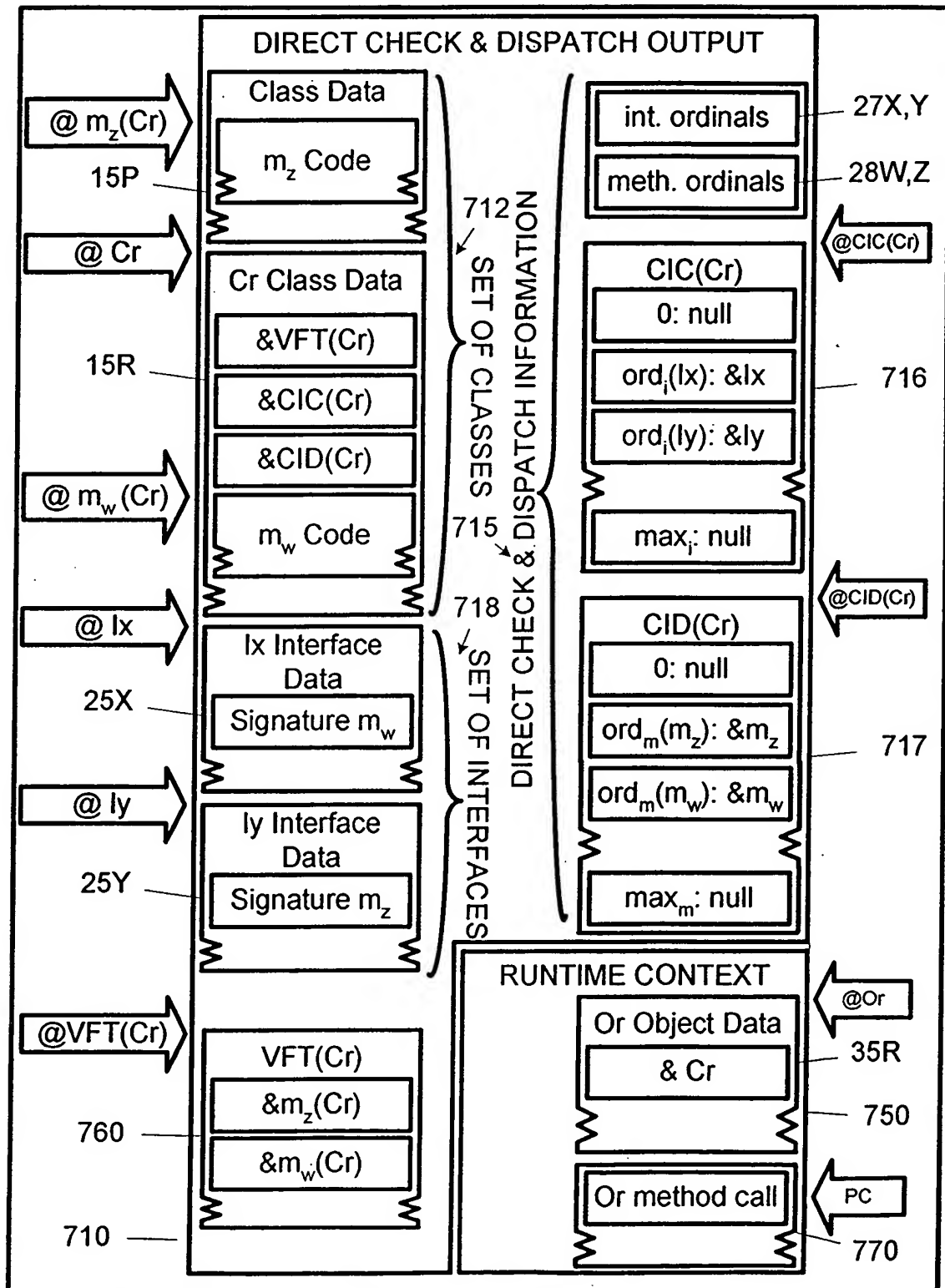


FIG. 26

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RUNTIME STORAGE



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FIG. 27

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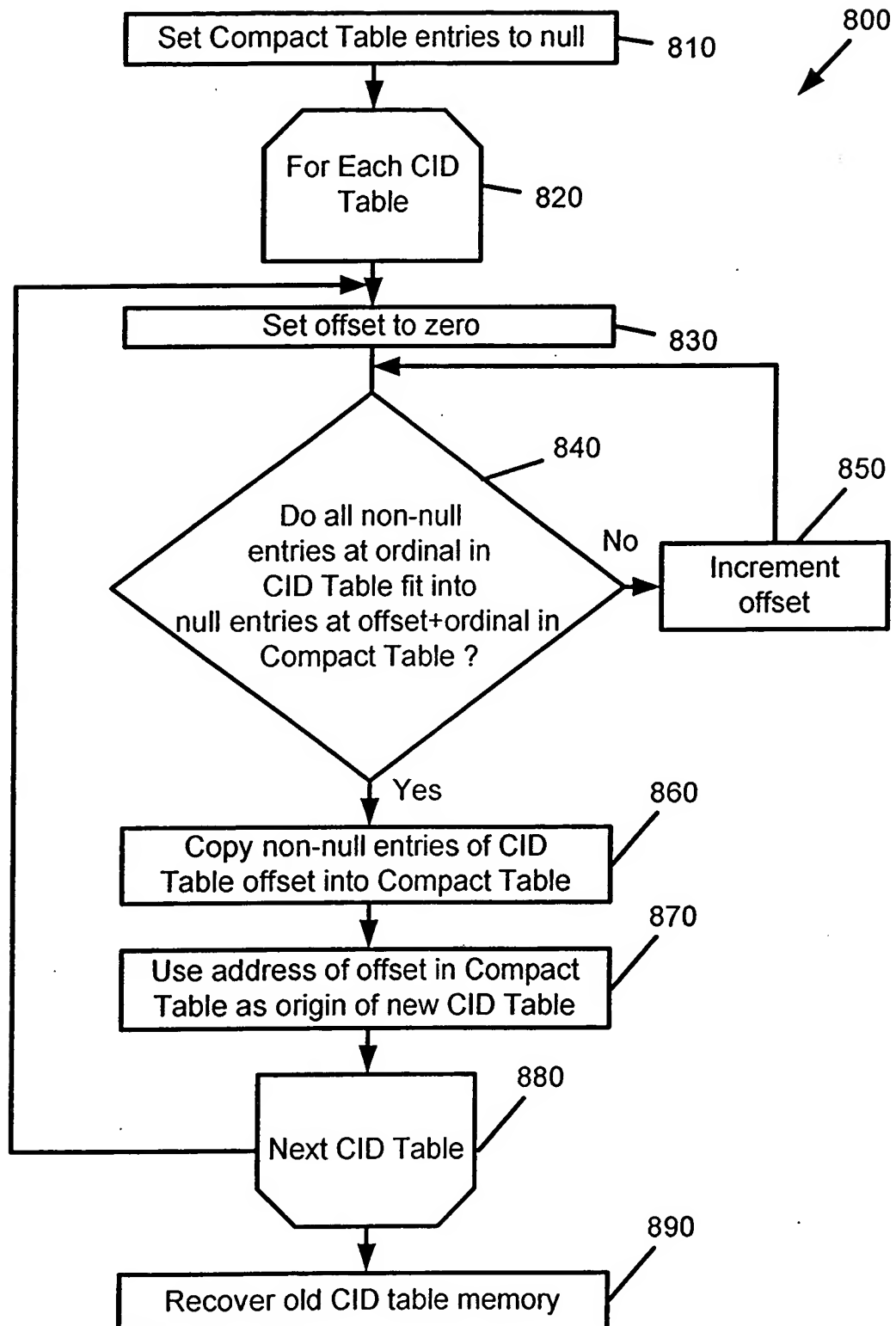


FIG. 28

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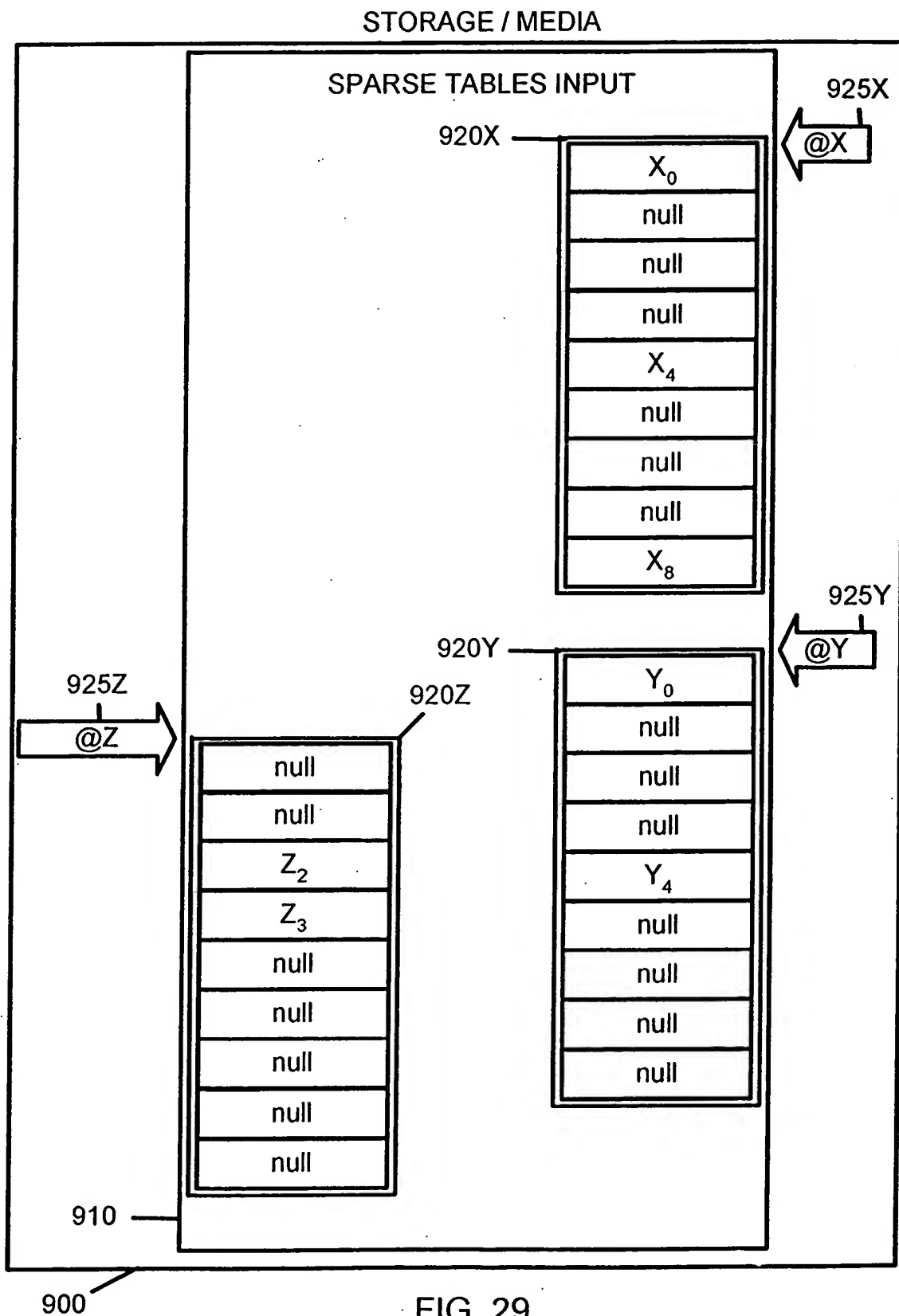


FIG. 29

STORAGE / MEDIA

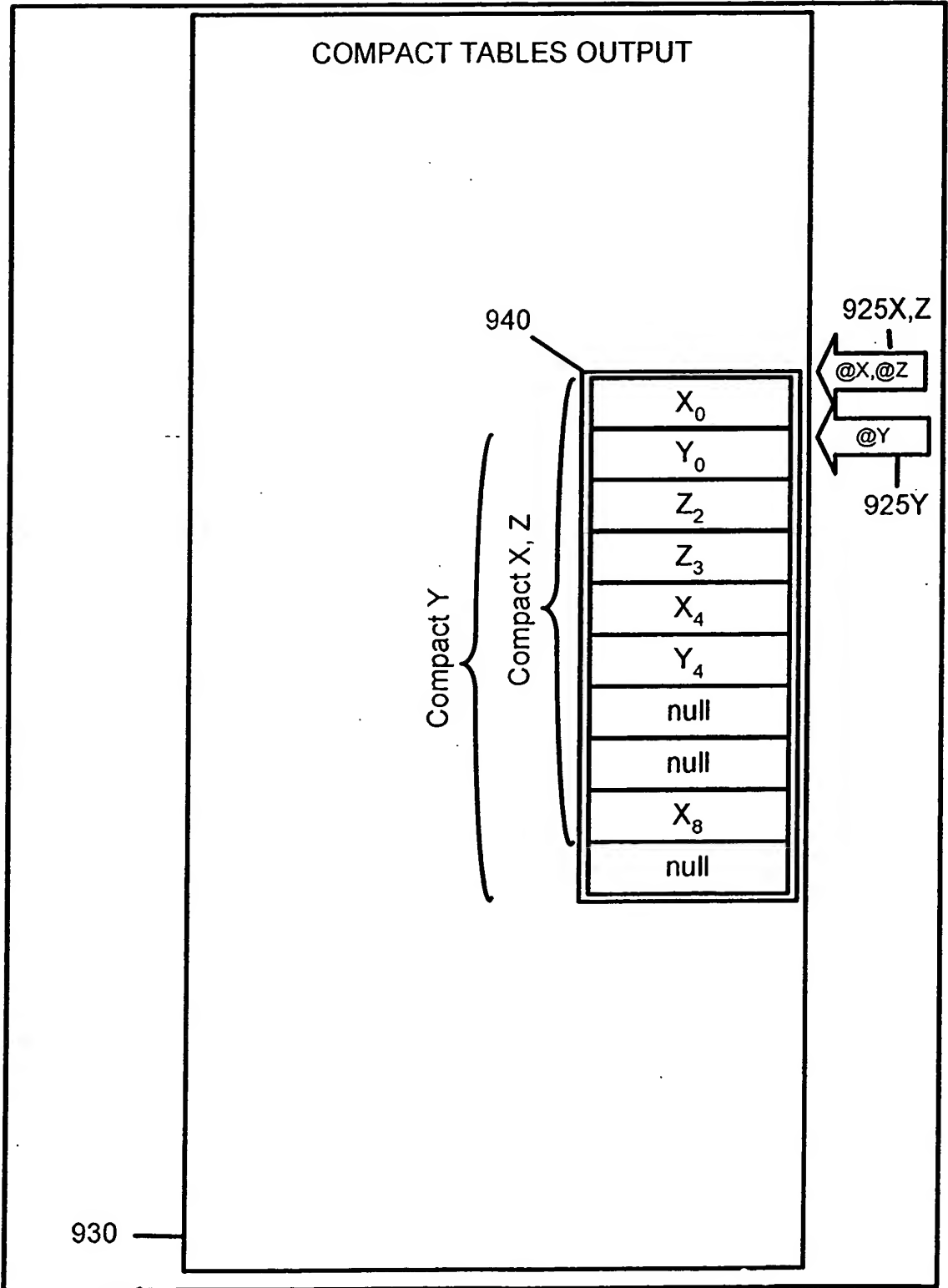


FIG. 30

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